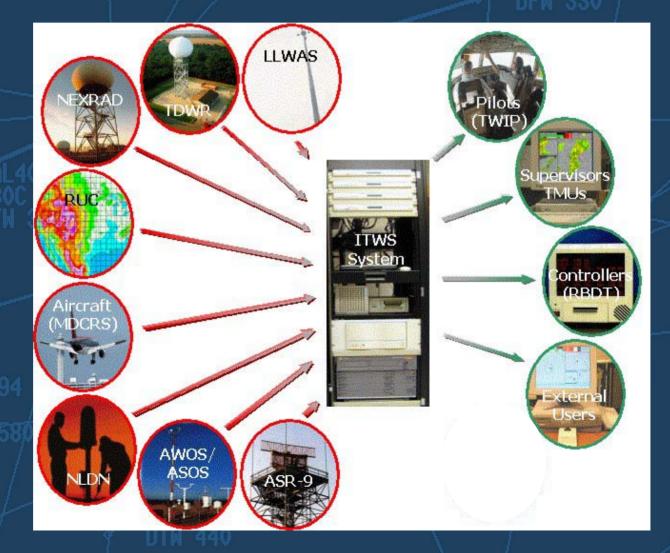




- ✓ Precision Runway Monitor (PRM) in Minneapolis
 - Provided an increase in arrival rates of six percent or better
 - ☐ Which equates to four more flights per hour, while in operation

The First Production Unit of the Integrated Terminal Weather System (ITWS) Is In Use at Atlanta





Runway Visual Range Data Is Now Provided to Users via Collaborative Decision Making Network (CDMNet) and Available to More Than 49 Airports





Precision Approaches Instrument Landing System (ILS) Has Been Implemented at 14 Airports







NWA463 290C DTW 440

Agenda_H



	/ / / / / IMH381	Later Line
Noon	Welcome and Introductions V5.0 Snapshot	Amr ElSawy
1220	Accomplishments, Experience and Performance • Recognize PODs	Gisele Mohler Andy Anderegg Bob Swensson
1335	Break	22UL /
1350	Metrics Report	Cynthia Morris
1405	OEP Challenges • Integrated Schedules • Equipage	Charlie Keegan • Mamie Mallory • Ardy Williams
1455	N4000kBreak _{IA959} N347HS	
1510	Looking Ahead to v6.0 Process, Timing, Milestones	Bob Lamond
1520	Questions and Answers Wrap-up DAL1723701	Charlie Keegan Other Associates Col. S. Atkins

AUGNOS HNN31



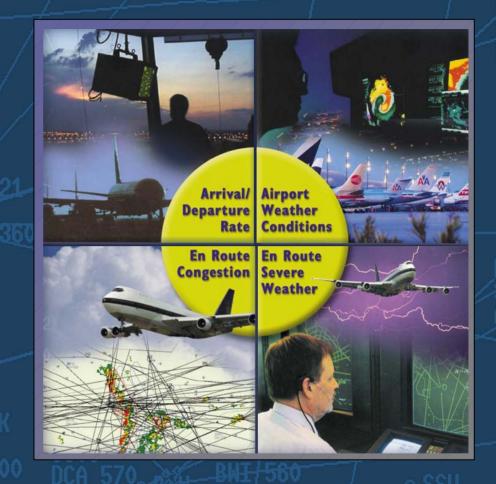
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Operational Evolution Plan

Industry Day Briefing 12/09/02

OEP Challenges Charlie Keegan

FAA Associate
Administrator
Research &
Acquisitions and
Director
Operational
Evolution Staff



Claire Robinson

Acting Deputy
Director Operational
Evolution Staff



New Entries in Version 5



SateIlite

Communications

Global Navigation Satellite System (GNSS)

Required Navigation Performance

En Route Application (e.g. parallel routes)

Approach Applications (e.g. parallel approach transition)

AL649 280C

NAVAIDS En Route Systems

> ATCSCC Systems



Air/Ground Market Communications

AOC Systems Radar •

Airport Traffic Control Tower (ATCT) Systems

Airport Landing, Weather, Lighting



New Entries in Version 5



Communications
Satellite

Global Navigation Satellite System (GNSS)



Closely Spaced Runways (e.g. along track separation; wake procedures)

Systems



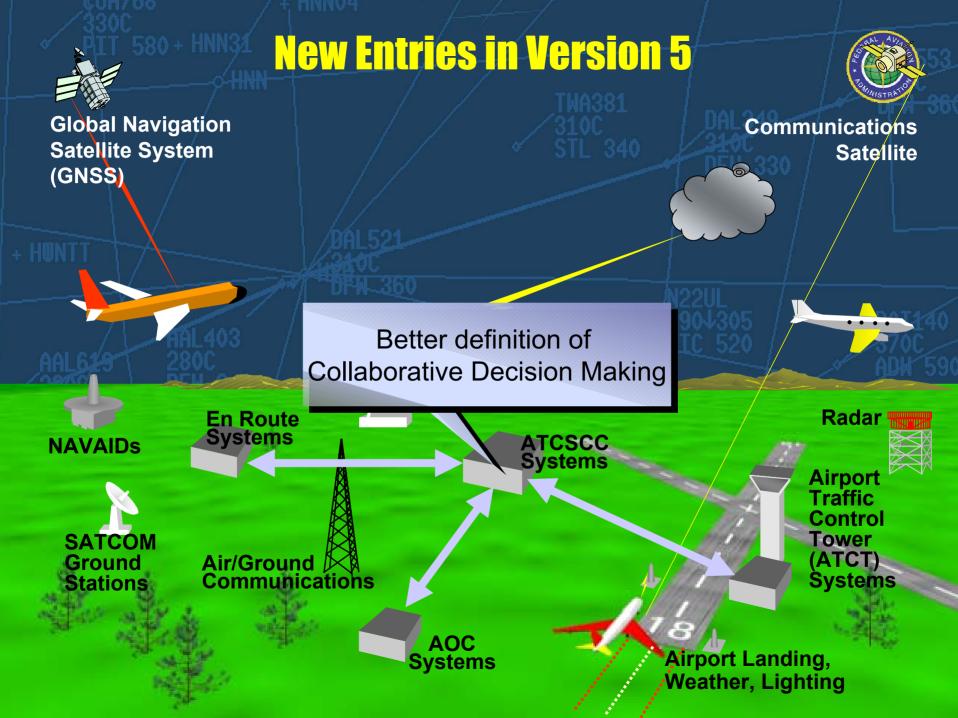
Air/Ground Communications





Traffic Control Tower (ATCT) Systems

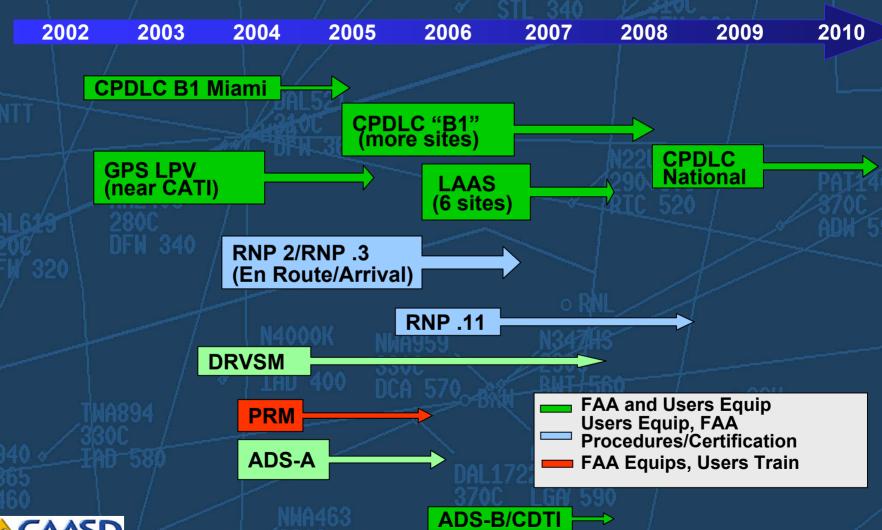
Airport Landing, Weather, Lighting

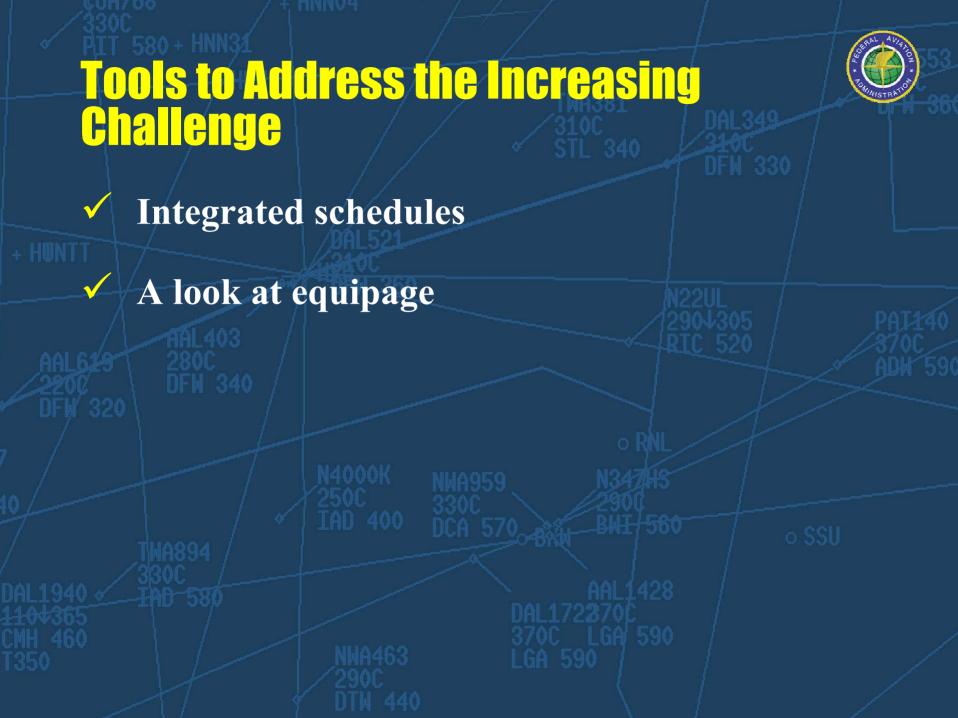


Major Upgrades Require User Participation

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Operational Evolution Plan

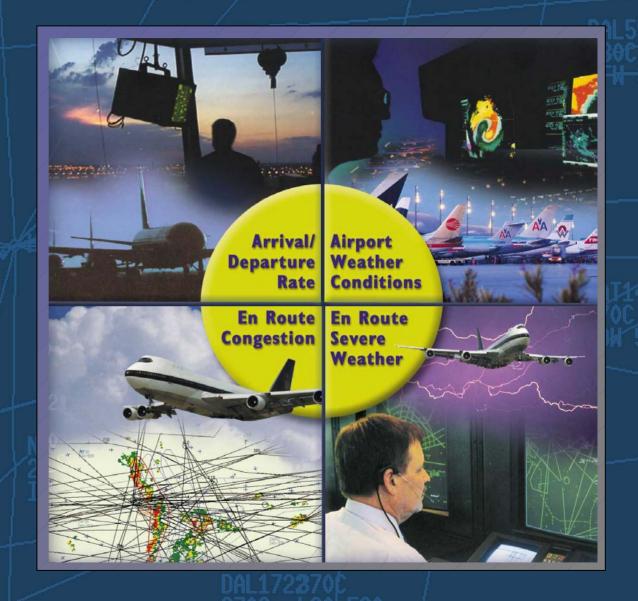
Industry Day Briefing 12/09/02

Challenges -

OEP Commitment Assurance: Implementation / Resource Integration

Mamie Mallory

Operational Evolution Staff



Objectives

- ✓ Comprehensive view of OEP projects and program activities
- ✓ Critical input from stakeholders
 - Coordination and integration
 - □ Alignment of resources
 - **□** Realistic OEP milestones



OEP Implementation/Resource Integration Matrix



OEP QUAD		POD/SECONDARY CONTACT	PHONE/ LOCATION	SUPPORT OFFICES	ACE	AEA	AGL	ANE	ANM	ASO	ASW	AWP	AAL
		inal Separation in the Sou				HLF.	HUL	FILL	Finan	HJV	Horr	ZOA '05	
_	Expansion; also AAL				The state of the s	ZNY						ZOA	Region- wide
		er Preferred Routing		John Thornton, AOZ-1 202-220-3300 Rose Schmokel ATP-1			ATP-1	P-1 AUA-200 Interagency IPT					
Confli	ict Identification and	/ Planning:											
User F	User Request Evaluation Tool (URET)					ZNY '04	ZMP '03	ZBW '04	ZDV '03 ZLC '03 ZSE '04	ZMA '04	ZFW '03 ZAB '03 ZHU '04	ZOA '04 ZLA '04	_
	ict Resolution and Pl												
		/Problem Analysis Resolu	lution and Ran	iking (PAAR), t	trial 6, '02								
0.000_4	Maintain Runway U Visibility	Jse in Reduced		rillo, ATP-1 line Parker	202	2-267-9155		ND-700 AF9 -100 ATB-20		ASC-200 1 AND 400	AND-500 IPT for S	AVN-1 Surveillance	
Near T	lerm:												
		onditions (VMC) to Inst	trument Met	eorological C	ondition	s (IMC) Approx							
	RNAV Approaches							Cast list of I		oaches			
Wide F	Area Augmentation Sys	stem (WAAS)							SEA '02				
Local Area Augmentation System (LAAS) Category I ((CATI)				ORD '05-'06		SEA	MEM	IAH '05-06	РНХ	
Long *	Term:												
Paralle	lel Runway Monitor (PR	RM)				JFK	CLE '04			ATL '06			
National Simultaneous Offset Instrument Approaches (SOIA) Release STL '02										SFO '02			
Latera	Lateral Navigation (LNAV)/Vertical Navigation (VNAV) '04-'10 About 300/Year Nationally												
AW-2 Space Closer to Visual Standards				e Cirillo, ATP- queline Parke		202-267	2-267-9155 AND-500 SF-21 SSG AOZ-1 ATB-			OZ-1 ATB	-1 AIR-10	0	
Enhan	Enhanced Visual Approach SDF												
Cockp	nit Display of Traffic Inf	formation (CDTI)			SDF (Initial testing)								
				John Stapl	les, ARU-	1	,,,,,,,,			,,,,,,,			

En Route Domain Integrated Schedule (EDIS) Process

2

Weeks

EDIS

Team



En Route Systems

Oceanic/Offshore

Traffic Flow Mgmt

Weather / FS Systems

EDIS Reports

- Date
- Site
- Project
- Completed

Monthly

•OEP EIS

En Route Schedule Analysis Team

> ANI AOZ OEP ACB AUA AOP

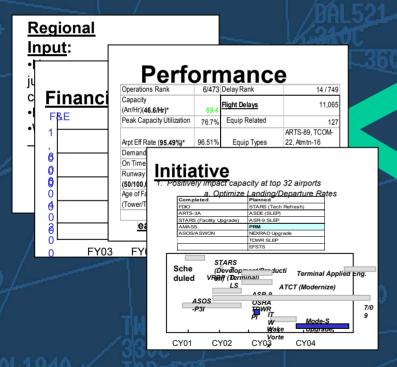
Review and assign to IPT POCs

Feedback



ATB Initiatives to Airport Matrix

Terminal Business Service

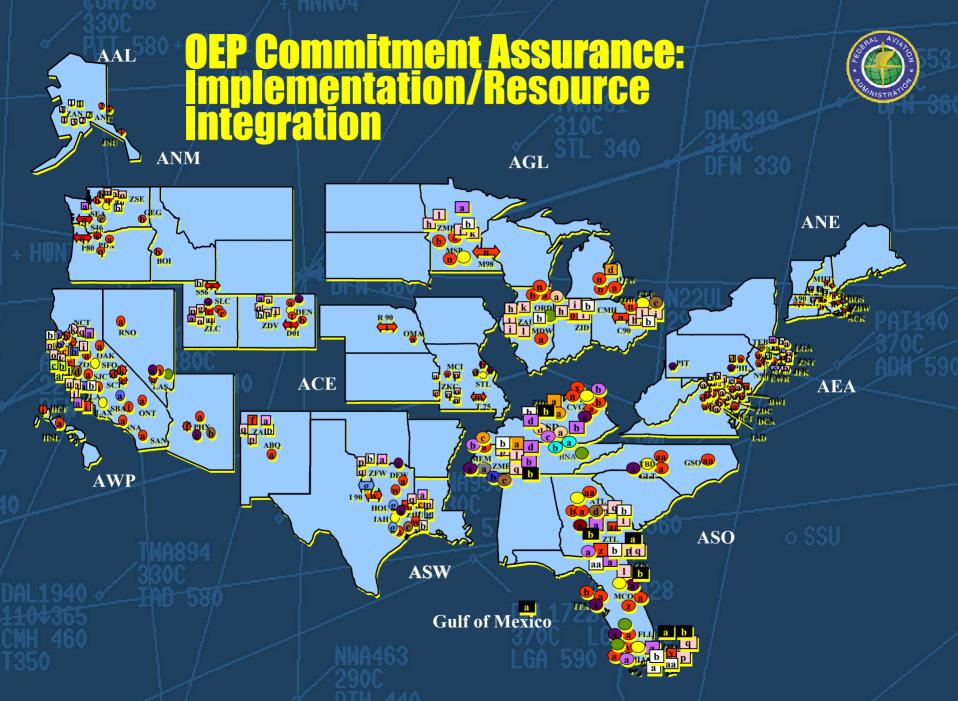


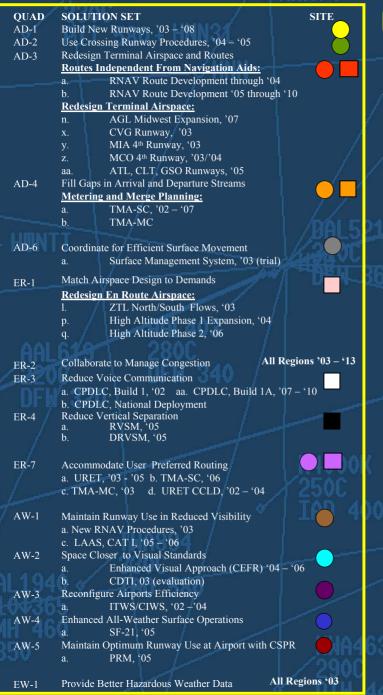
Systems	S	ystems	
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Fielded Systems	Planned Systems	Scheduled Systems
FDIO	STARS (Tech Refresh)	TDLS
ARTS-3A	ASDE (SLEP)	Terminal Applied Engineering
STARS (Facility Upgrade)	ASR-9 SLEP	ATCT (Mod)
AMASS	PRM	STARS
ASOS/ASWON	NEXRAD Upgrade	ASOS P3I
	TDWR SLEP	Wake Vortex
	EFSTS	ITWS
		TDWR P3I
		Mode-S Upgrade
		ASR-9 OSHA

OEP Initiatives:

- AD-3: Redesign Terminal Airspace and Routes
- Area Navigation (RNAV) Route Development Through '04
- Coordinate Domestic (DRVSM) Redesign Program '04
- Traffic Management Advisory-Multiple Center (TMA-MC) '03
- New RNAV Procedures
- Lateral Navigation (LNAV)/Vertical Navigation (VNAV) '07-'10
- Collaborative Decision Making -Collaborative Convective Forecast Product (CCFP) Development, Upgrade '02
- RVR via CDMNet.





OEP Commitment Assurance: Implementation/Resource Integration - ASO



